

Allen County HamNews

Fort Wayne Radio Club

Allen County Amateur Radio Technical Society

May 2002

Volume 3 Issue 5



Fort Wayne Radio Club Spring Banquet

The Annual Fort Wayne Radio Club Spring Banquet will be held Friday, May 10, 2002 at the Good Shepherd

United Methodist Church located on the corner of Vance and Reed Roads. The dinner will be at 6:30 P.M. and will be a total carry in. Judging from the last carry-ins that we have had there are some wonderful cooks in our organization. The club will provide table settings, punch and coffee. We are looking forward to another congenial evening of good food, good conversation and good friends. See you there.

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APRS Notes

Hello everyone:

During the April FWRC meeting there was an APRS demonstration. Aprs was show using Ui-view, APRS+, which is APRS and Street Atlas, and with Palm APRS. We had a very nice sized group, and the demo went very well with the modest station that we used. It shows that APRS can be set up and ran with very minimal equipment.

The group asked a lot of questions, and I hope all of them were answered.

To learn more about APRS go to www.tawg.org <<http://www.tawg.org>> and look at some of the links and information on the site. To learn more about Ui-view visit www.packetradio.org/uk <<http://www.packetradio.org/uk>> .

There is a wealth of information at these two sites, including much information on the Kenwood TH-D7a and TH700 APRS radio's. There is even a quick start page that shows how to start up using one of those rigs, and there is a program to download that works very well with the Kenwood radio.

The frequency for APRS is 144.390 on 2 meters, and 10151 on HF.

For those with no radio or TNC try downloading AGWPE and use your sound card.

APRS can also be run directly from the Internet without a TNC or sound card. Just download an APRS program and set up the options and then run it from the Internet.

I hope everyone who tries it will have a fun time.

73 and happy packeting

KB9IBW

Allen County HamNews is a monthly joint publication of the Fort Wayne Radio Club (P.O. Box 15127, Fort Wayne, IN) and the Allen County Amateur Radio Technical Society (P.O. Box 10342, Fort Wayne, IN).

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Please send any articles, corrections, for sale notices, etc. to the editor, Victor Guess, WB9UZA, wb9uza@arrl.net. Please put "for newsletter" in the subject line. Text should be plain ASCII, graphics should be JPEG or GIF. For those computer impaired: snail mail to 3311 Sanibel Drive, Fort Wayne, IN, 46815-4755.

**Deadline is the last Friday of the month.
Please do NOT send anything in all caps!!**

Internet Home Pages:

Fort Wayne Radio Club:
<http://www.fortwayneradioclub.org>
ACARTS:
<http://www.acarts.com>

Hamsplatter

Fort Wayne Radio Club

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**President's Corner**

If you missed it, the April meeting was another hands on demonstration. This time we had a demonstration of the Automatic Position Reporting System or APRS. ACARTS currently maintains an APRS repeater.

Emery McClendon, KB9IBW, from the ACARTS club helped us setup a couple of APRS stations at the meeting. Our thanks to Emery for sharing his time and expertise with us. It was a great meeting.

May will be the annual Fort Wayne Radio Club Spring Banquet as well as the Dayton Hamvention. The Hamvention this year is May 17, 18, and 19 which is the third weekend of the month. Therefore we will be moving the FWRC Spring Banquet up to Friday May 10th; the second weekend of the month. We have an excellent program planned for the May banquet. Casey Drudge will be coming to take us on a "trolley ride" back in time to Fort Wayne's historic Robinson Park. At the dawn of the twentieth century Fort Wayne had a wonderful, magical amusement park along the St. Joe river north of Fort Wayne. The only way to get there was on the trolley. Casey has spent years putting together pictures, maps, and fascinating stories of the park. I believe he has even added a picture of an early radio demonstration at the park to his collection. Weather and schedules permitting he has even offered to lead a field trip to the site on Saturday morning after the banquet. I have seen the presentation before and I guarantee that this is a once in a lifetime opportunity that you will not forget. You will want to mark your calendar take the time to see this unique presentation.

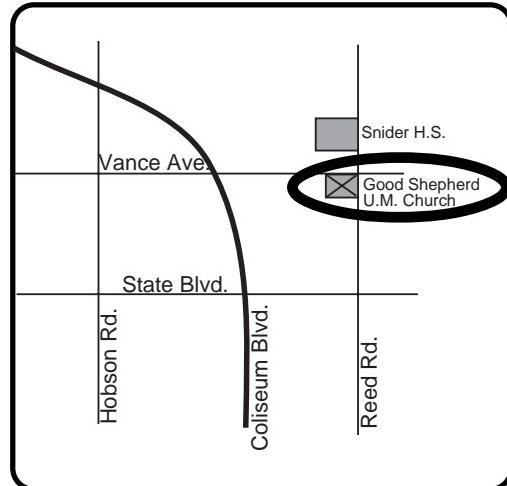
Also May 4th will be a Boy Scout field day. Steve Nardin, WB9ZIY, has been leading the effort within FWRC to increase Amateur Radio exposure to area Boy Scouts. And the local Boy Scout organization is pleased to have local club support. This will be the first time some of the scouts will have a chance to be "on the air" so if you can help

please contact Steve or any other FWRC board member.

And of course June will bring us Field Day. This year Field Day is the 22nd and the 23rd. We will start setting up camp Friday Night June 21st which is also the third Friday in June. So again in June the club meeting will be one week early. That means we will have our general meeting on Friday June 14th at 7:30 PM. The subject will be Field Day and wrapping up the final details. Our reservation is again at the Girl Scout camp and the Hog Roast planning is under way so stay tuned! I can't believe that Field Day is almost here again!

There are a lot of fun and exciting events coming up; don't miss the May Banquet so you will be "up to date" on all the 2002 FWRC activities. See you there!

Tom Baker / N9TB

**Spring Banquet**

Fri, May 10, 2002, 6:30 PM
Note earlier date and time.

Fort Wayne Radio Club April Minutes

April 19, 2002

The April 2002 meeting of the Fort Wayne Radio Club commenced at 7:30 PM at the Good Shepherd United Methodist Church. There were about 30 people present and President Tom Baker hosted the meeting.

The minutes from the March meeting were read and there were no corrections.

Treasurer Bob Streeter provided a status of club finances as follows: As of 19, April 2002 the club had year-to-date income of \$1,587.32 and expenses of \$589.05. It assets included \$72.41 in cash and \$1,833.37 in checking. Its total assets were \$11,986.82 including the estimated value of club property.

Carl Rittenhouse reported on the latest Foxhunt standings. Through the three hunts conducted so far this year N9NRO has 9 points followed by KB9's DOT, DOS, LOF and OZH with 5 points each, N9LOV with 4 points, WB9ZIF, K9OMA and WB9SSE with 3 points and N9GK and KB9NRA with 1.5 points. Foxhunts are on the summer schedule now and start at 6:30 PM from the Lima Rd. / Washington Center Rd. OTB site parking lot.

Tom Baker noted the following upcoming events:

The May meeting will occur on 10 May and is the Spring Banquet. (It's occurring one week early because of Dayton). The Banquet starts promptly at 6:30 PM will be a total bring-in affair, same as last year (the club will provide table settings, punch and coffee) and will feature Casey Drudge as our guest speaker. Casey will entertain us with a presentation on historic Robinson Park, a turn of the century amusement park that used to exist just north of the city, and a location that was familiar with many old-time Ft. Wayne residents. We believe that Casey will have some photographs of a radio club that was active in the area (and in Robinson Park) just after the turn of the century.

The June meeting will occur on 14 June because of Field Day the following weekend. The main topic of the meeting will be Field Day planning

(including the final touches on the Hog Roast that will occur at the Field Day site on Saturday night).

Clint Stedge reported on his research into the proposed Port-A-Chicken fund raising project. He has obtained data from Port-A-Chicken regarding what they offer as a menu, their pricing, their recommendations on the staffing we would need to provide, and their recommendations regarding advertising (including the advertising materials they provide). He will bring his research to the next FWRC Board meeting (30 April, 2002) for discussion by the Board.



Larry Temenoff noted that his "loaner" HF transceiver is available to club / prospective club members, prospective / new Hams for up to 30 days use. Contact Larry if interested in borrowing this rig.

Bill Hall conducted the 50/50 raffle. The \$16.00 pot was split between the club and Lynn, WA9PIV.

Following the business meeting an excellent presentation and Q&A session on the Automatic Position Reporting System (APRS) was provided by Emery McClendon, KB9IBW.

Respectfully submitted,

Al Burke, WB9SSE



STATE OF THE ARTS

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President's Message



Last month was our Spring Banquet. We had 25 members/guests in attendance. Everyone enjoyed the great food at Ryan's, and the conversation that followed. We chose to use the time after the meal to visit with new and old members instead of a formal program. It worked for us last year, and it seemed to work well this year too.

With the coming of warm weather, our thoughts turn to outdoor work. Depending on who you talk to, this has two meanings. For some it means putting in a new flower bed, or a garden. For others it means ham radio related work. Things like repairs to your antennas or putting up a tower for the first time. Which of these has priority may depend on what ideas your SO (significant other) may have.

I will address the ham radio related work. If you are putting up a new tower, make sure that your base is properly prepared and the right depth to support your tower. Be sure to find out if you need a permit to put in the concrete base. It will save you a lot of problems later on. Pick a location that is far away from power lines and your neighbors house. If for some unforeseen reason your tower should fall down, you do not want it to land on either one. Both may be hazardous to your health.

The best way to put up a tower and antennas, is with a lot of help. There is safety in numbers. Find someone who has experience in putting up towers. The same advice goes for making repairs to existing towers and antennas.

Be aware of your surroundings and what you are doing at all times. We do not want to read about you in the newspaper being injured or becoming an SK. When properly done, you will enjoy making all those contacts on your new antenna.

Remember your Skywarn training, and the procedures to follow during severe weather. If you were not at the training session that was held in February, read the article in the February newsletter. That's all for this month.

73 Vic KA9LTV

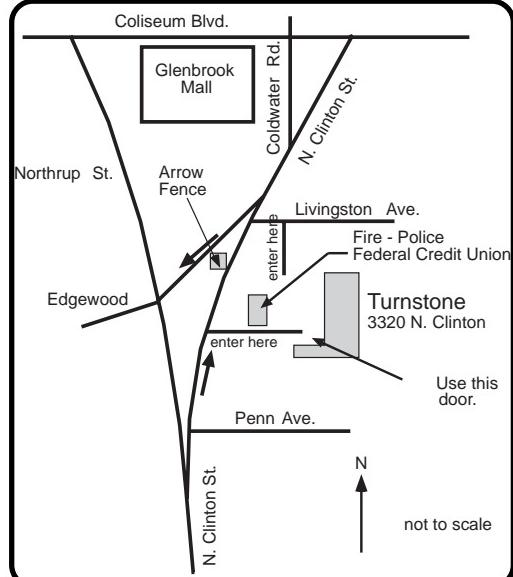
Meeting Schedule

All meetings are at 7:30 PM at Turnstone unless otherwise noted.

May Meeting: 5/21/2002. Program: TBD
 (see note on pg. 5)

Board Meeting: 5/14/2002
 All members are encouraged to attend.

Tech Committee: no meeting this month



FCC Invites Comments On Novice Band, Field-repairable Gear Petitions

from *The ARRL Letter* – Comments are due by May 16 on two Amateur Radio-related Petitions for Rule Making put on public notice this week by the FCC. An ARRL petition, designated RM-10413, would eliminate the 80, 40 and 15-meter Novice/Technician Plus CW subbands and reuse the spectrum in part to expand the 80 and 40-meter phone allocations. Another petition filed by Nick Leggett, N3NL, designated RM-10412, would require most commercially manufactured Amateur Radio transmitters and transceivers to be field-repairable “in some manner.”

Amateurs may view and comment on these proposals via the FCC’s Electronic Comment Filing System (ECFS), <http://www.fcc.gov/e-file/ecfs.html>. (Click on “Search for Filed Comments.” In the “Proceeding” field enter the rulemaking number, with “RM” in upper-case and the hyphen included.)

The ARRL’s petition, filed in March, asks the FCC to eliminate the Novice and Technician-Plus CW bands and reapportion these “inefficiently deployed segments” to alleviate overcrowding elsewhere. If the FCC goes along, current Novice and Technician Plus (ie, Technician with Element 1 credit) licensees would be permitted to operate on the 80, 40, 15 and 10-meter General-class CW allocations at up to 200 W output. For General and higher class operators, the ARRL plan would implement changes in the 80, 40 and 15-meter phone bands, expanding phone segments for many amateurs.

The League’s petition also seeks FCC permission to use spread spectrum on 222-225 MHz; to expand the pool of special event call signs beyond the 1x1 format to include identifiers for US territories and possessions that do not provide for mailing addresses; to clarify rules to indicate that modulated CW (MCW) is permitted for repeater station identification; and to incorporate into the rules a 1990 FCC waiver authorizing amateurs in certain areas of Colorado and Wyoming to operate on certain segments of the 33-cm band.

The Leggett petition was filed in February. “Field repair is important to the Amateur Radio Service because it enhances emergency communications preparedness and the growth of technical knowledge in the Amateur Radio Service,” Leggett said in his petition.

Leggett suggests that the FCC consider mandating easily replaceable modules or circuit boards, minimum component spacings on circuit boards, removable integrated circuits mounted in sockets and other requirements for commercially made amateur transmitters and transceivers. He would exempt ham radio receivers.

Leggett concedes that some manufacturers may drop out of the amateur market if the FCC were to adopt his recommendations, but he suggests that they would be replaced by other manufacturers, such as those making QRP equipment.

Last December, Leggett and attorney Don Schellhardt petitioned the FCC to require that all electronic equipment subject to FCC jurisdiction be shielded against electromagnetic pulse (EMP) damage.

April ACARTS Board Meeting Minutes

The meeting began with newsletter folding, stapling, and stamping of the Allen County HamNews, with the business meeting formally being called to order at 7:50 PM.



Doug, N9NNT talked about the repeater problems, and showed us the two repeater systems that are in the running for replacement of our two 2M machines. Don, WB8HQS, also brought in info on another possibility. Doug asked for everyone’s inputs, and a decision will be made and the systems ordered next week.

Jim, KB9IH, informed us that the ARRL still has not formally approved our hamfest for the Indiana State Convention, but we hope to get that approval soon, so we can get the single page flyers printed and to the various hamfests.

Vic, KA9LTV, commented that names are coming in for next Tuesdays Spring Banquet.

No new inputs from Vic, WB9UZA and Dave, W9LKH, or Don, WB8HQS.

We still need a meeting program for May.

Howard, N9ADS, decided to show up after all and “bless us with his presence”. We were all suitably impressed.

The meeting was adjourned at 8:30 PM.

Sincerely,

Don WB8HQS
Secretary

[NOTE: Due to the April Banquet, there were no General Meeting minutes.]

ACARTS May Program Info: Due to the early publication date of the newsletter this month, the information for the May program was not available.



SKYWARN Tidbit

Damage from a downburst can be much more substantial than from a weak tornado because of the greater coverage area of a downburst.



Ft Wayne DX Association
(FWDXA) News

Ft Wayne DX Association

Working DX Doesn't Require A Big Station

by Mark Reese, N9MR

After reading the article "DXing with 100 W and a Vertical" by Carl, K9LA, I was happy to see that our DX association (FWDXA) was exposing the fact that it doesn't require big beams and a kilowatt to work DX. Carl showed it could be done with only a simple vertical and 100 watts. This was a personal challenge for him, done voluntarily. Carl has a big beam available, but wanted to prove to himself, and others, that it wasn't needed for the goal he set out to accomplish.

For the last two years I have been working DX with a dipole and 100 watts, but it has not been voluntary. Somewhat confusing restrictions (CC&R's) regarding towers and antenna size keep me from going further, for the moment. For now the beam is in the attic, in pieces, and the amplifier is in the basement, in a box. When I moved to this QTH I thought I was finished with DX. For two years I would stand in my yard, look up at the trees, and wonder if I could be effective with a wire. I used to throw a wire out a window in the Navy officer's quarters and work DX, but then I would convince myself it was because I lived on the coast at those QTHs. Well, finally the urge to try something was just too great.

In April 2000 I ordered a new transceiver, an ICOM IC-746, found some RG-8X coax, ran it through an unused chimney flue and connected it up to a 20 meter dipole made out of 22 gauge wire. I threw a tennis ball with fish line attached to it through the highest branches I could hit, and pulled the antenna up. With this thin of wire, the coax appeared to be floating in the air by itself. I hooked up the power supply to the radio, attached the coax, hit the switch and wow! I was totally surprised at the signals I was hearing. This is the peak of the sunspot cycle, so conditions were ripe for DX. My first DX QSO on this simple setup was a Ukrainian station on CW, and he gave me a 599 report. I moved to sideband and worked a Czech Republic station and he gave me a report of 59 plus!

Over the next couple of weeks I worked 35 countries.

I was using the internal tuner and forcing the antenna system to the other bands, and though not optimum I was working 20 meters through 6 meters. Within a month I had worked a new one for me, Palestine. At this point I was totally amazed at what this "little" setup was accomplishing. By the end of 2000 I had worked 135 countries. In the year 2001 I made the antenna a bit more robust, because it tended to bust, and I added fanned elements for 10 and 15 meters. By the end of 2001 I had worked 155 countries for that year, and 186 overall using the dipoles. In the first months of 2002 I have worked 143 countries, and 210 total so far on the wires. I have new ones "in the bag", including the latest entity, Ducie Island. To say that I am enthused is an understatement!

How do you accomplish all this with 100 watts and a dipole? Well, here are a few things I think are important. The first thing is you should not be afraid to try it! Multiple modes, on multiple bands, play a large part in running the DX total up. If you have a PC with a sound card you can get on RTTY, PSK, or MFSK. I broke down the totals, and I was surprised to see how I had worked the 210 countries, to date. I do favor CW, with 40% of what I've worked on this mode, but RTTY/Digital accounted for 35%, and SSB for the remaining 25%.

Listening is definitely a key to success in DX. The PacketCluster DX spotting helps, as you have a lot of ears out there listening (you can access this via telnet at wolf.my-net-space.net, or on 144.91 MHz 1200 bps Packet by connecting to KR9U). You must have patience, as many times the DX you are calling is just inundated with callers. If you are one of those that needs instant gratification, then you better find a QTH where you can put the metal up in the air.

For the Ducie Island operation I spent at least a couple of hours carefully figuring out what the operator was doing, the pattern he was working, and once I was in sync with him, bingo - the QSO was in the log (yep, now that everything is electronic, in his log, too!). The last, and probably the most important, thing is to realize that you are not going to work some stations that day, or in some cases, that hour. To borrow a phrase from Tim Allen's Galaxy Quest movie, "Never give up, never surrender".

So, push some wire up in the air, plant a vertical on the ground, hide wire in the attic, but put RF into it! If you can hear the DX, try calling it. You may be surprised at the results. Once you're hooked, 100 countries (DXCC) is not that far off.

Test Points**01-May-2002**

Sponsor: FRANKE PARK
SCHOOL ARC KB9TYU
Time: 6:30 PM (No walk-ins)
Contact: GREGORY S WHITE (219)425-7336
Email: GREG.WHITE@FWCS.K12.IN.US
VEC: ARRL/VEC
Location: FRANKE PARK SCHOOL 828 MILDRED AVE
PRE-REGISTRATION ONLY!
FORT WAYNE, IN 46808

04-May-2002

Sponsor: UNSPONSORED
Time: 9:00 AM (Walk-ins allowed)
Contact: WILLIAM C HALL (219)485-3995
Email: WD9HII@INFI.NET
VEC: W5YI VEC
Location: ALLEN COUNTY LIBRARY
GEORGETOWN BRANCH 6600 E STATE BLVD
COMMUNITY ROOM
FORT WAYNE, IN 46815

25-May-2002

Sponsor: W5YI-VEC — WHITLEY COUNTY ARC
Time: 9:00 AM (Walk-ins allowed)
Contact: ROGER L MC ENTARFER (219)691-3009
VEC: W5YI VEC
Location: WHITLEY COUNTY JAIL
BASEMENT MEETING ROOM 101 W MARKET ST -
SUITE C
N9QCL@ARRL.NET
COLUMBIA CITY, IN 46725

25-May-2002

Sponsor: UNSPONSORED

Time: 2:00 PM (No walk-ins)
Contact: ROBERT E HIGH (419)795-5763
VEC: ARRL/VEC
Location: EMA BLDG 1220 EAST RIDGE RD
PRE-REGISTRATION PREFERRED
VAN WERT, OH 45891

11-Jul-2002

Sponsor: GOSHEN ARC
Time: 7:00 PM (Walk-ins allowed)
Contact: LYLE L LONG (219)875-8455
VEC: ARRL/VEC
Location: GREENCROFT RETIREMENT CENTER
HOMAN BUILDING
GREENCROFT BLVD
GOSHEN, IN 46525

21-Jul-2002

Sponsor: UNSPONSORED
Time: 2:00 PM (No walk-ins)
Contact: ROBERT E HIGH (419)795-5763
VEC: ARRL/VEC
Location: EMA BLDG 1220
EAST RIDGE RD
PRE-REGISTRATION
PREFERRED
VAN WERT, OH 45891

**SKYWARN Tidbit**

By placing yourself north-east of a storm, you have compromised your personal safety because the hail and possible tornado would be obscured by the heavy rain that precedes them.

27-Jul-2002

Sponsor: W5YI-VEC — WHITLEY COUNTY ARC
Time: 9:00 AM (Walk-ins allowed)
Contact: ROGER L MC ENTARFER (219)691-3009
VEC: W5YI VEC
Location: WHITLEY COUNTY JAIL
BASEMENT MEETING ROOM 101 W MARKET ST -
SUITE C
N9QCL@ARRL.NET
COLUMBIA CITY, IN 46725

Regional Hamfests

<u>Date</u>	<u>Location</u>	<u>Contact Phone</u>	<u>URL or E-mail</u>
17-19 May 2002	Dayton, OH		http://www.hamvention.org/
9 Jun 2002	Wauseon, OH	419-822-4382	http://www.fcarc.8m.com
9 Jun 2002	Wabash, IN	260-563-8487	wia1@netusa1.net
16 Jun 2002	Crown Point, IN		kf9ex@arrl.net
16 Jun 2002	Monroe, MI	734-242-9487	http://www.mcrca.org
6 July 2002	Indianapolis, IN	317-257-4050	http://www.indyhamfest.com
3 Aug 2002	Columbus, OH	614-846-7790	kb8kpj@cs.com
10 Aug 2002	Jackson, MI	517-522-4058	http://www.w8jxn.org
11 Aug 2002	Greentown, IN	765-668-4814	http://www.grantarc.com/greentown.html



For Sale & Wanted

For Sale:

Due to moving and lack of operating because of deficient hearing and other interests I have the following items for sale:

- 48 foot self supporting tower with a Hy-gain TH6-DXX tri-band beam with instruction manual, an 8 element Hy-gain 6 meter beam and a homemade 7 element 2 meter beam. The direction indicator uses WW II surplus radio compass selsyns with a 400 Hz. supply. The rotator I used (a 1/4 hp motor with 3:1 reduction to a 500:1 coal stoker furnace is worn out). I have an electric motor with a 30:1 worm drive and a 50:1 worm drive to give close to one rpm output for constructing a rotating system to be included. A lineman's belt will be included in the package. The buyer must take down and assume all liabilities. A gin pole and all other tools must be provided by the buyer. The price is \$250.00. The house will also be for sale and the complete combination is negotiable.
- A solid 300 pep output low band linear amplifier kit. It has two MRF422 transistors with all components mounted on the board of Motorola Application Note AN758. Power supply components are also included (28 volts at up to 30 amps). It needs to be mounted on a heat sunked chassis with control circuits and low pass filters. The price is \$100.00.
- Back issues of QST from 1955 through 1983. Price \$25.00.

- A Pentium II 266 MHz. microprocessor and motherboard (Biostar M6TLA for Pionex). The BIOS chip was misprogrammed and needs to be replaced/reprogrammed. I have a copy of the binary file which worked. The programmed EPROM can be obtained from www.biosworld.com <<http://www.biosworld.com>>. My Price is \$20.00.

The following items are **free** on a first come first served basis or if nobody wants them they will be scrapped:

- Drake T4X transmitter.
- Tectronics 531 Oscilloscope with Type 53/54L plugin, Type 53 plugin, and a Type N sampling plugin.
- Hammarlund HQ-180 receiver
- General Electric Model FA/E-33W tube type FM transceiver
- Motorola Model T43GAD-1 tube type FM transceiver

There will be other equipment for sale and to give away as I go through 33 years of accumulation.

I will be out of town approximately half of the time so please call for an appointment at 260-483-4487 or our cell phone 260-413-8821.

Noel Leitzman, K9LPZ, calcite@mindspring.com

* * *

For Sale:

- Lafayette Model HA750 6 Meter AM Mobile with matching Power Supply & Manual \$100.00 obo.
- Radio Shack HTX 202, HTX 404 Hand Holds, Radio Shack HTA 20 VHF Amp, 2 NiCAD battery packs, 2 AA battery packs plus all manuals \$125.00 obo

Contact : Richard Andrew N9HRA, 260- 373-0644, rcandrew@iquest.net

* * *

For Sale: Drake L-4B Amplifier with Drake matching L-4B power supply
Benefits go to Memorial Park M.S. ARC KB9ZQV
Make Offer!
WD9ITM,cemurray@fortwayne.infi.net

* * *

For Sale: The following items are the remains of the Estate of Irene Kennedy, WA9EZP that was sold at the Club Sales Table at the Hamfest.

- Kenwood VFO-120 with Remote VFO for use with the TS-120, TS-130, or TS-140, \$100.00
- HAL 1550 Electronic Keyer, \$50.00
- Autek Research MK-1 Memory Keyer, \$50.00
- Channel Master Antenna Rotator Control, \$15.00

Contact: Vic, KA9LTV 747-0938 or vberko@juno.com

* * *

Wanted: Old Magnavox radios. Table and or transistor radios. 30'S through 70'S.
Call Larry, KB9OS
260-490-3089, <TEMENOFF@ipfw.edu>

NOTE: For Sale & Wanted items will be listed for 2 months only unless the ad is resubmitted. If you sell an item the first month, please contact the editor so the item can be removed.

Membership Application for FWRC - and/or - ACARTS

Name: _____ Call sign: _____ License class: _____

Street address: _____ City: _____

State: _____ ZIP : _____⁴ _____ Phone #: (____) _____-_____ Unlisted? Yes

Email address: _____ ARRL Member? Yes

May we list your name, call & email address in our membership roster and on our club web site? Yes No

Both clubs now offer this newsletter as a downloadable (Adobe Acrobat) PDF file, in lieu of a paper copy sent through the mail. How would you like your newsletter delivered? by snail mail download from web site.

Fort Wayne Radio Club Dues

Regular membership	<input type="checkbox"/> \$15.00 / year
Family membership ¹	<input type="checkbox"/> \$21.00 / year
Student membership ²	<input type="checkbox"/> \$6.00 / year
Associate membership ³	<input type="checkbox"/> \$15.00 / year

(Memberships for Jul - Dec are 1/2 the stated amounts.)

1. Please list all names and calls on an attached sheet.
2. K-12 or full time student

Please attach a check (number _____) for the appropriate amount and bring to a club meeting or mail to:

Fort Wayne Radio Club
PO Box 15127
Fort Wayne, IN 46885

A.C.A.R.T.S. Dues

Regular membership	<input type="checkbox"/> \$12.00 / year
Additional family members ¹	<input type="checkbox"/> \$6.00 / year
Student membership ²	<input type="checkbox"/> \$6.00 / year
Associate membership ³	<input type="checkbox"/> \$6.00 / year

(New Regular memberships are \$1/month)

3. unlicensed member
4. 9 digit ZIP code required for US bulk mail

For dual membership, fill out both sides and send 2 checks to either club.

ACARTS Voice Repeaters

146.880 (-)	General use / Skywarn priority
147.255 (+)	General use / Autopatch priority
443.800 (+)	General use

(All repeaters have autopatch, but 88 has only speed dial emergency #'s.)

ACARTS Digital Repeaters (digipeaters)

144.390 (s)	APRS - wide
145.010 (s)	General use, NETROM (FWA) - wide
223.660 (s)	BBS use ONLY NETROM (FWA220) - wide

Fort Wayne Radio Club Repeaters

Voice:	146.76 (-)	General use
	146.94 (-)	General use with autopatch
	146.91 (-)	Autopatch only
	444.875 (+)	General use
ATV:	439.25 In,	910.250 Out, 144.340 Audio & control

Area Traffic Nets

(please submit any changes or corrections to the editor)

IMO: meets nightly at 6:30 p.m. (2330 UTC) on 146.88

Area Traffic Nets - Continued

Auburn: meets Mon., Tue., Wed., Thur., Fri., & Sat. at 6 p.m. (2300 UTC) on 147.015+

21 Repeater Group: meets each Wednesday at 9 p.m. (0200 UTC) on 147.150

Helping Hands Net: Mondays @ 8:00 p.m. 146.94(-)

Miscellaneous Nets

Huntington ARES: Saturday at 8:00 p.m. (0100 UTC) on 146.685

Whitley Co./ARES: Wednesdays at 7:15 p.m. (0015 UTC) on 145.270
(Note 131.8 PL disabled for all nets)

Whitley Co. Sunday: Sundays at 7:45 p.m. (0045 UTC) on 444.550+
(The 146.460 simplex crossbanding from both nets has been dropped.)

Sloppy Code Net: Sundays at 9 p.m. (0200 UTC) on 40M (7.1405 MHz). This CW net's purpose is to build confidence and help increase code speed. The speed is generally 1-10 WPM. If you want to copy only contact Henry, KA9ZNN at 749-8968 for details..

Six Meter AM net (informal): Every Saturday night at 7:00 p.m. and Sunday at 8:30 p.m. on 50.580 MHz .